

**APPARATUS AND METHOD FOR SYNTHESIZING
PSEUDO-STEREOPHONIC OUTPUTS FROM A MONOPHONIC INPUT
ABSTRACT OF THE DISCLOSURE**

A sound enhancement system (synthesizer) disclosed. The enhancement system synthesizes pseudo-stereophonic left and right output channels output from a monophonic input channel. The monophonic input signal is applied to a perspective filter that produces a differential-mode signal and to an equalizer filter that produces a common-mode signal. The perspective filter attenuates signal components in a frequency range corresponding to the human voice. The equalizer filter attenuates signal components in a frequency range outside the frequency range of the human voice. The equalizer filter also provides a 90 degree phase shift. The differential-mode and the common-mode signals are combined to produce the output channels. The pseudo-stereo output provided by the synthesizer has relatively less ambience in the frequency range corresponding to the human voice and relatively more ambience in frequency ranges that do not correspond to the human voice.

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